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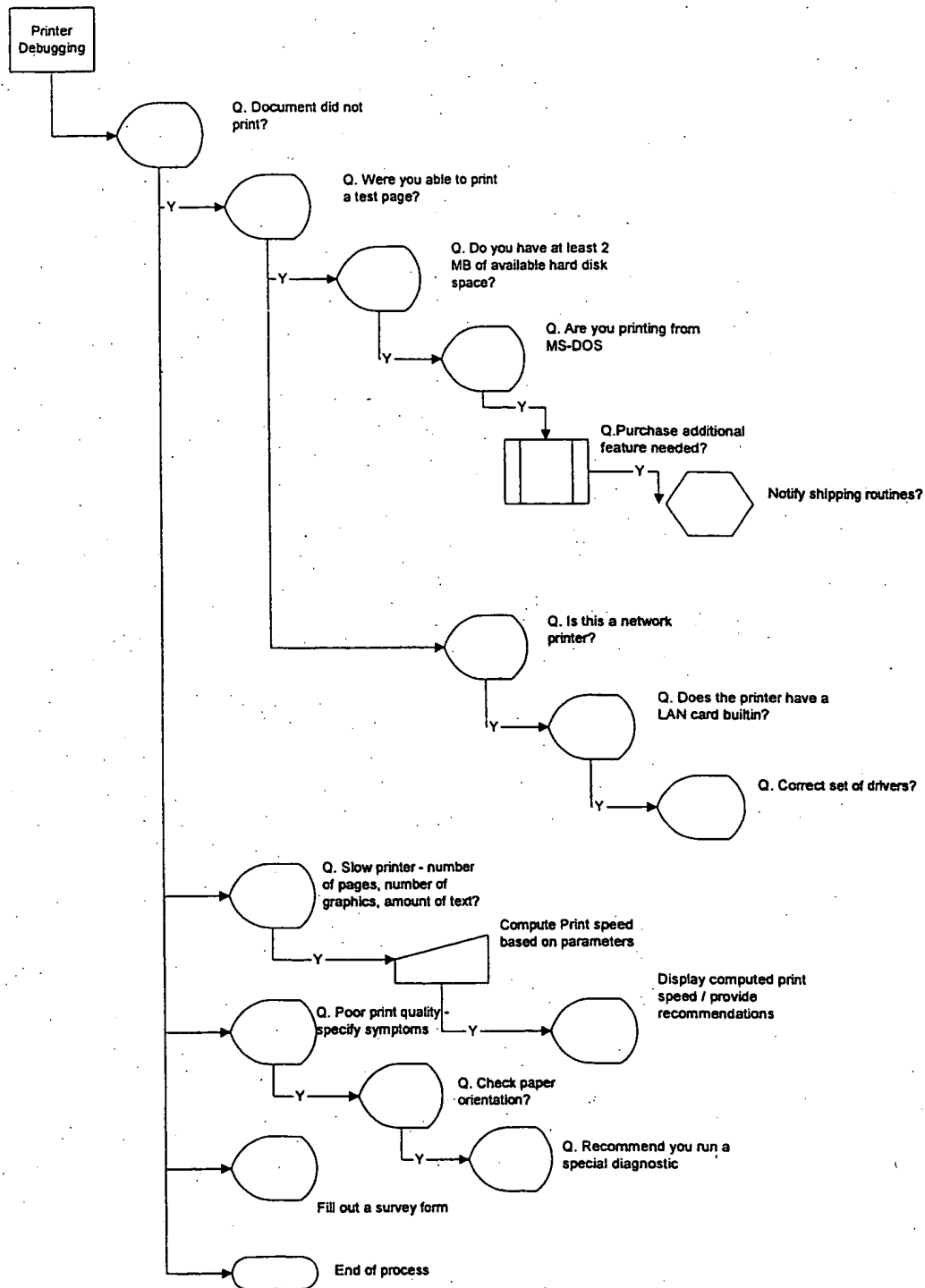


Fig 1 Sample Business Process

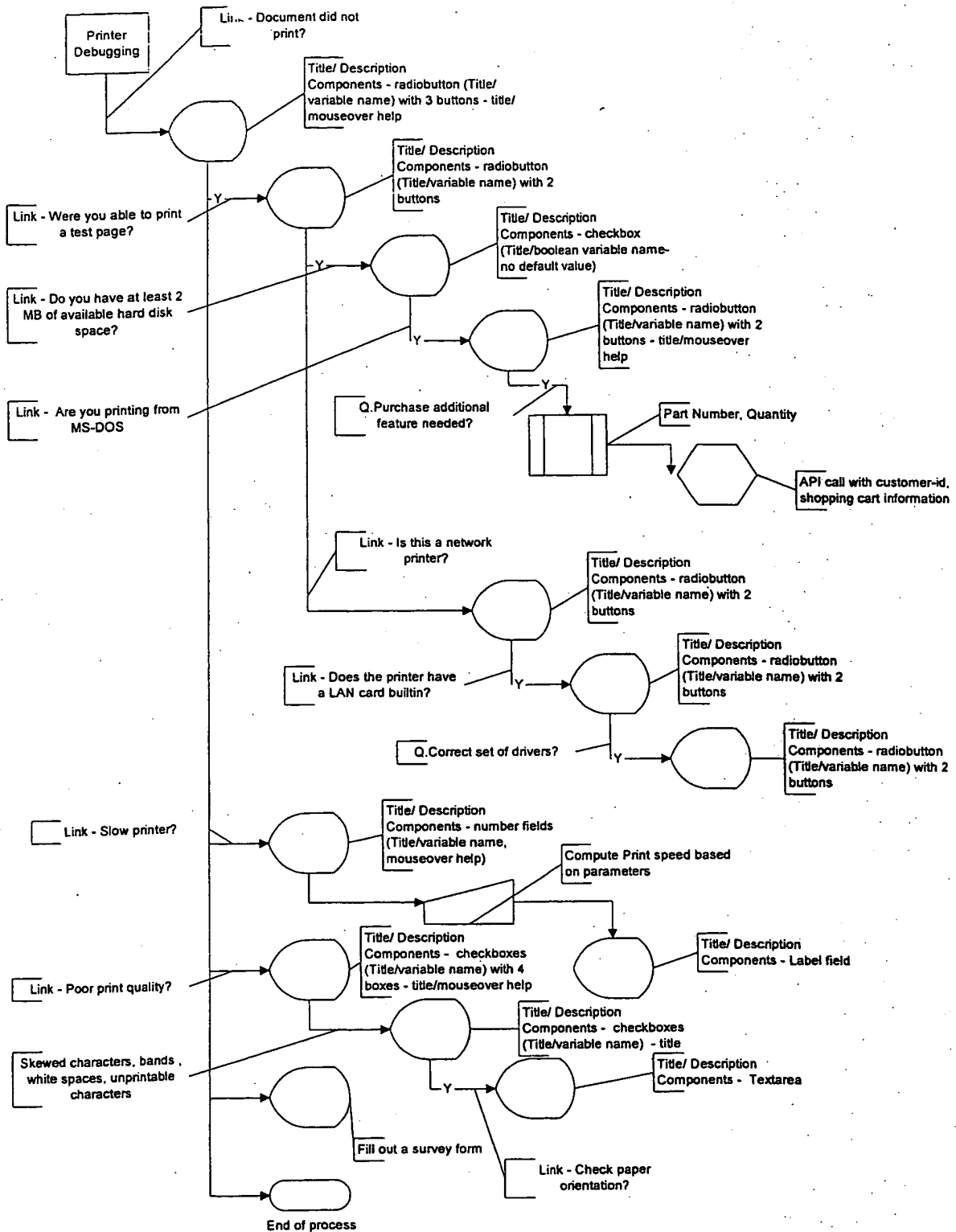


Fig 2 Node Example Details – Links and User Interface Specifications

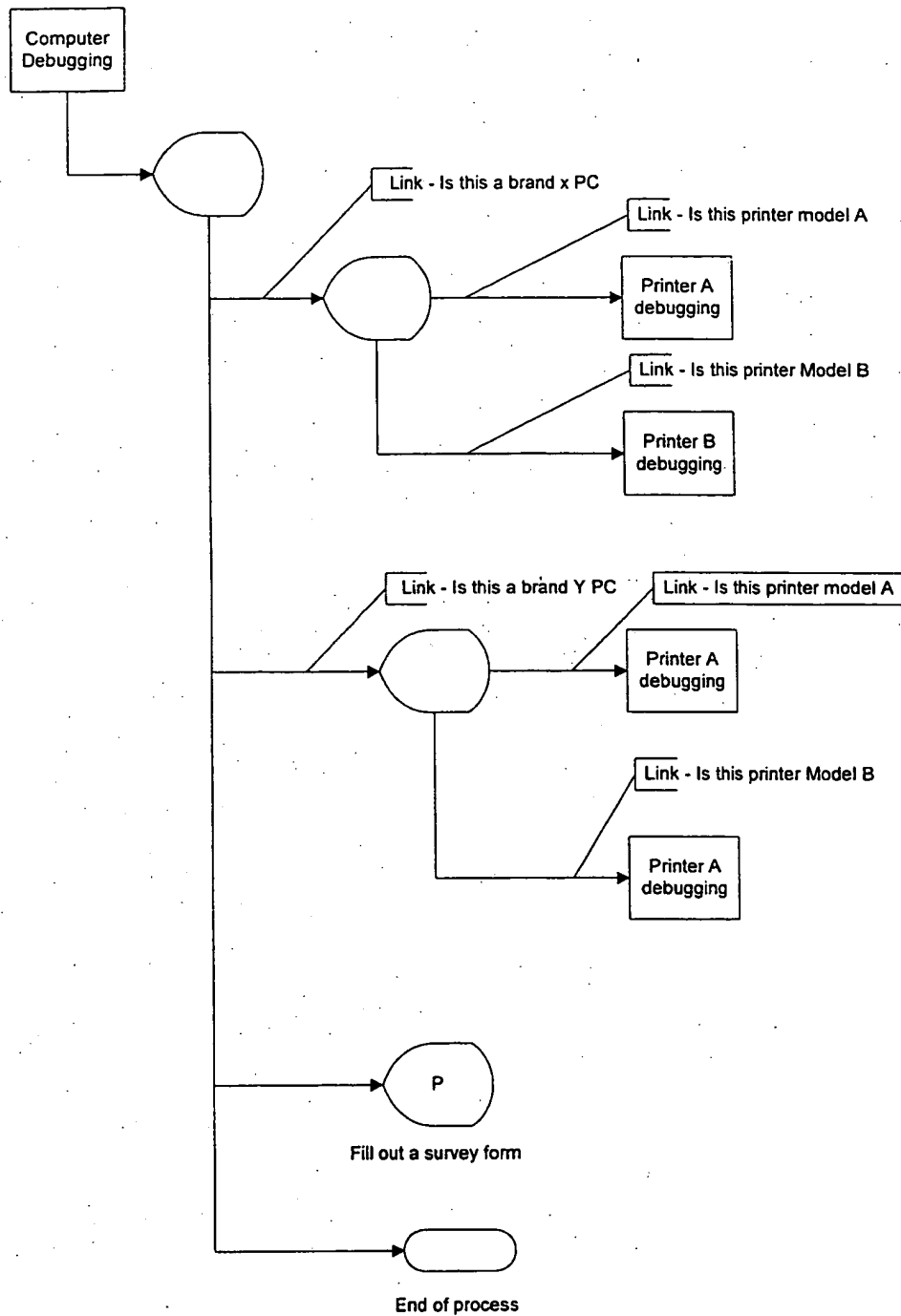


Fig 3 Reusable Process Definitions

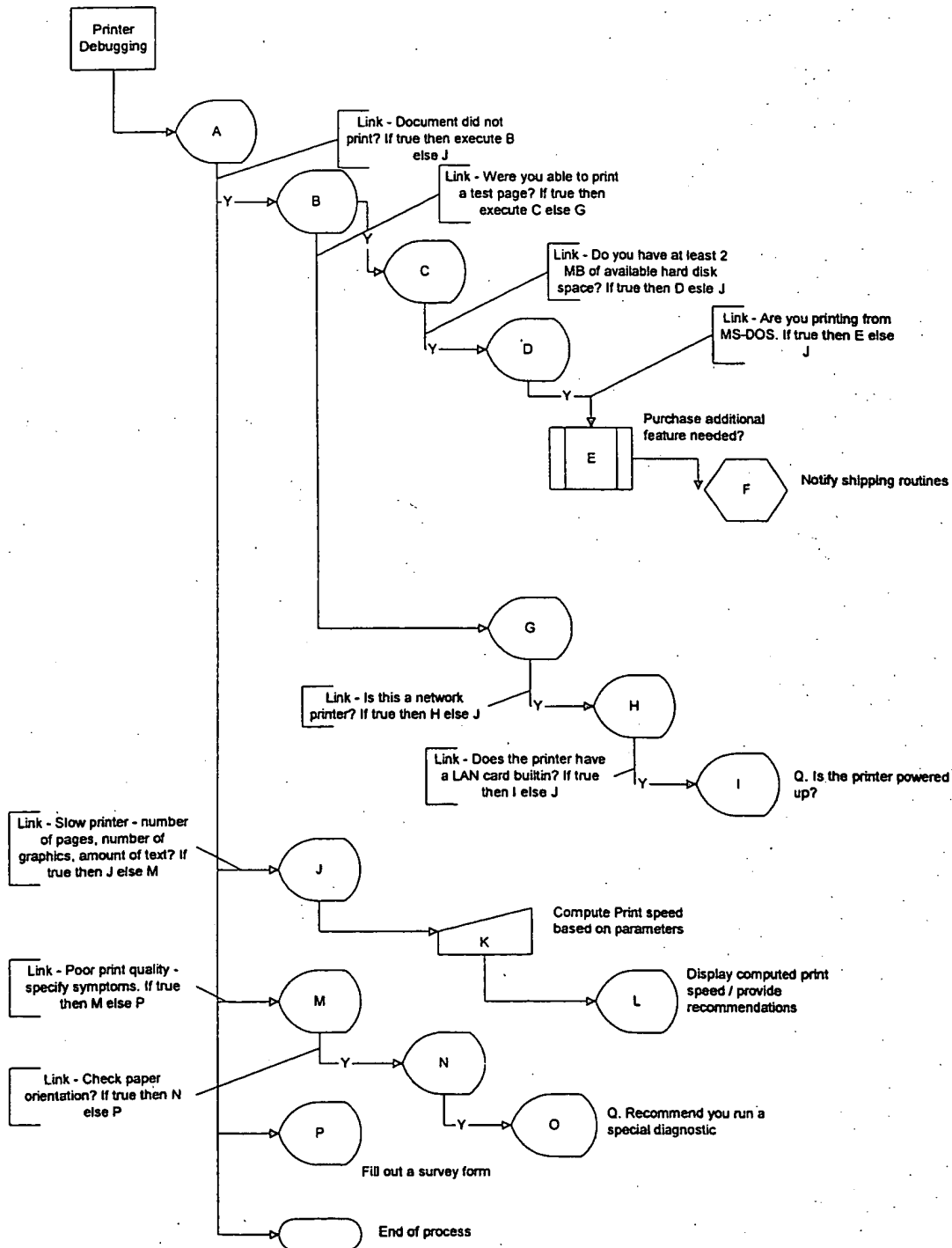


Fig 4 Node Conditional Logic

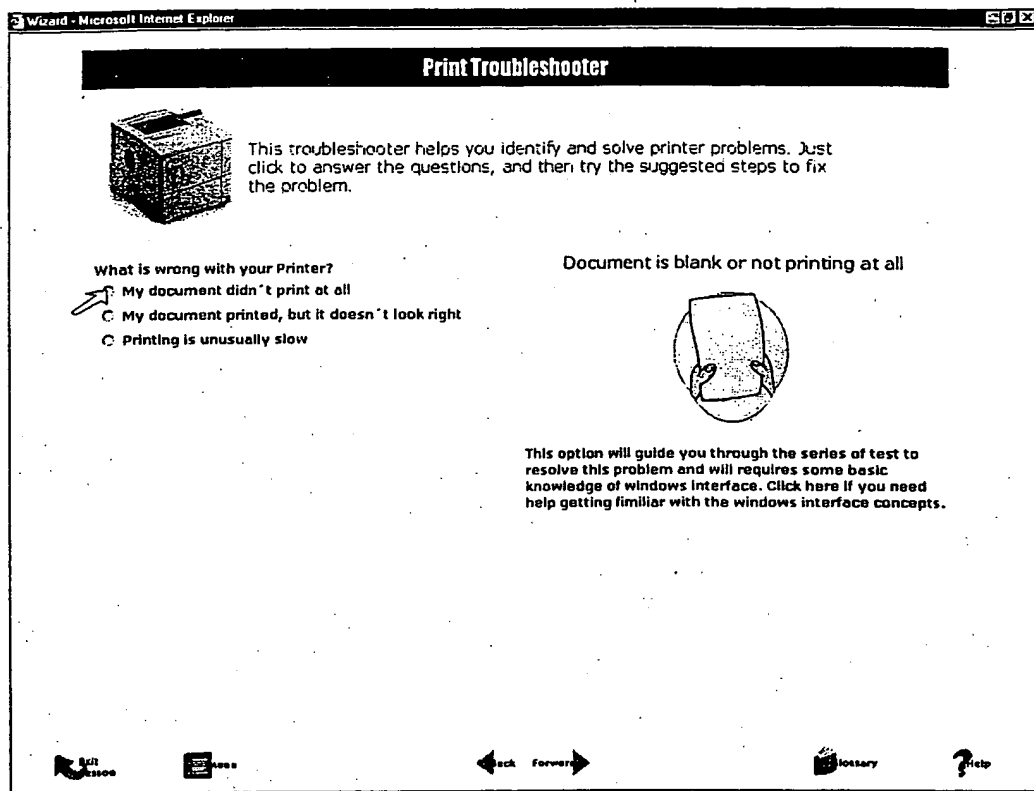


Fig 5 Sample Application Screen Shots

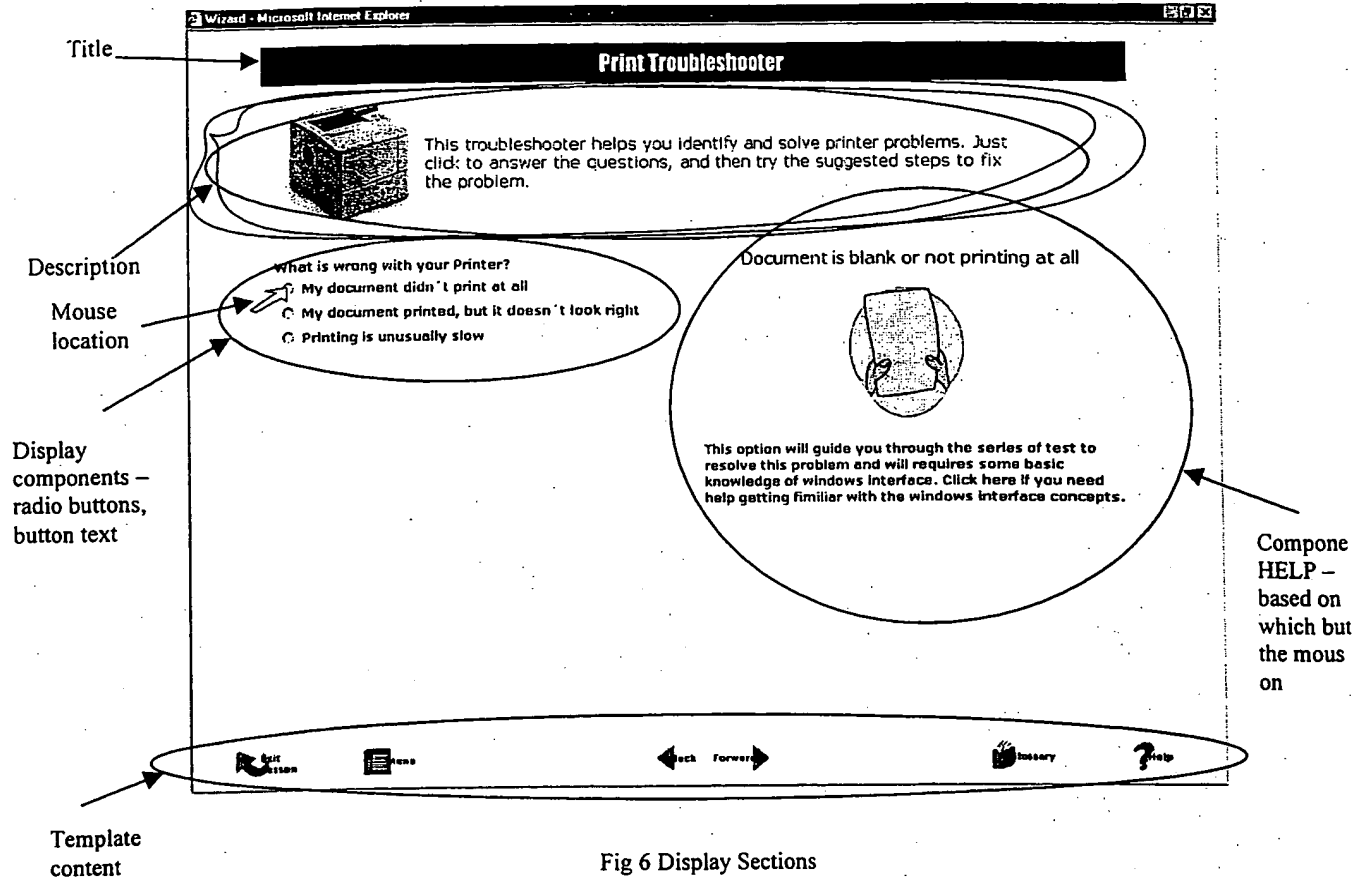
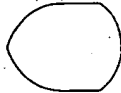


Fig 6 Display Sections



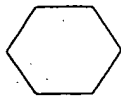
The process node represents a complete process and contains global variables for the process



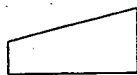
The display node represents the logic to display titles, screen descriptions and display objects such as radio buttons, pull-down menus, checkboxes etc. The individual display objects may have a wide range of animated behaviors and may accept input that is stored in global variables



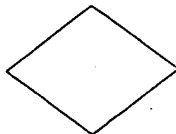
The purchase node represents the placing of a certain number of specific items for purchase in a shopping cart paradigm for later checkout. e.g., place a 4X CD-ROM, associated documentation and a software driver in the shopping cart



The interface node represents the interaction with external applications using a pre-defined interface known as an API (application programming interface) e.g., issue a call to a relational database requesting records that match a certain criteria



The computation node represents the computation of a variable using a formula e.g., $A = B^3 + 4 \cdot D^{2/5.4}$



Links represent the conditions under which a subsequent node will be executed e.g., $A < 5$ AND $B > C$

Fig 7 Node Types and Links

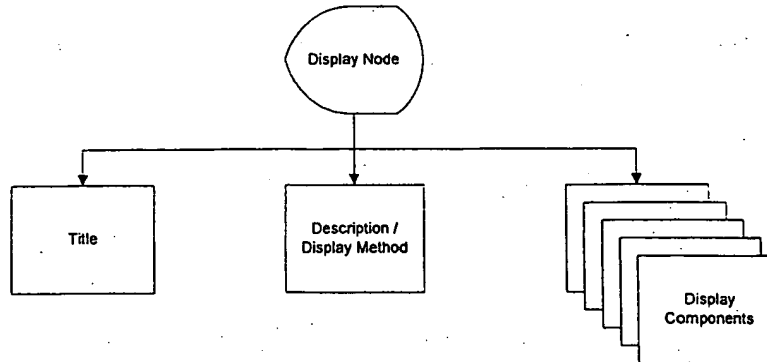


Fig 8 Display Node

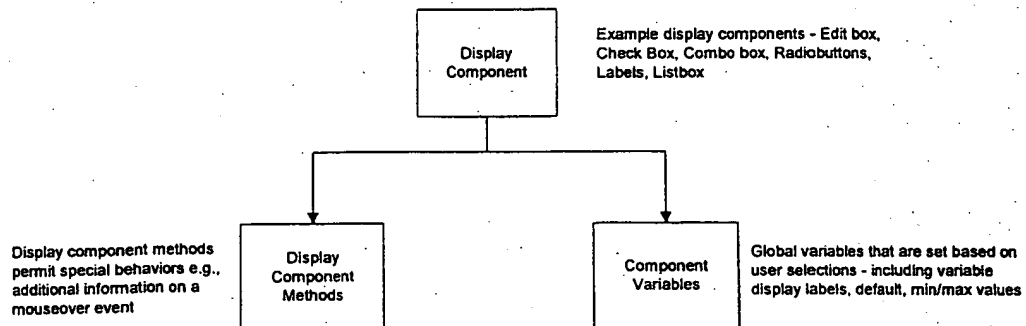
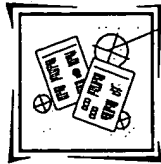


Fig 9 Display Components

Templates provide a means to define an overall look & feel for a specific screen display



Templates may be associated with a website (lowest priority) or a specific process or with a specific display node (highest priority)

The highest priority template is the one selected.

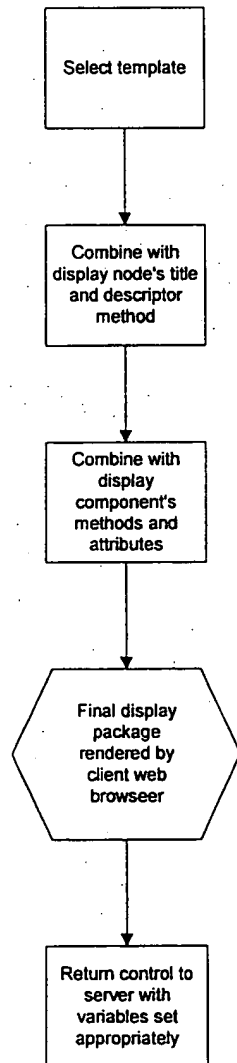


Fig 10 Dynamic display creation process

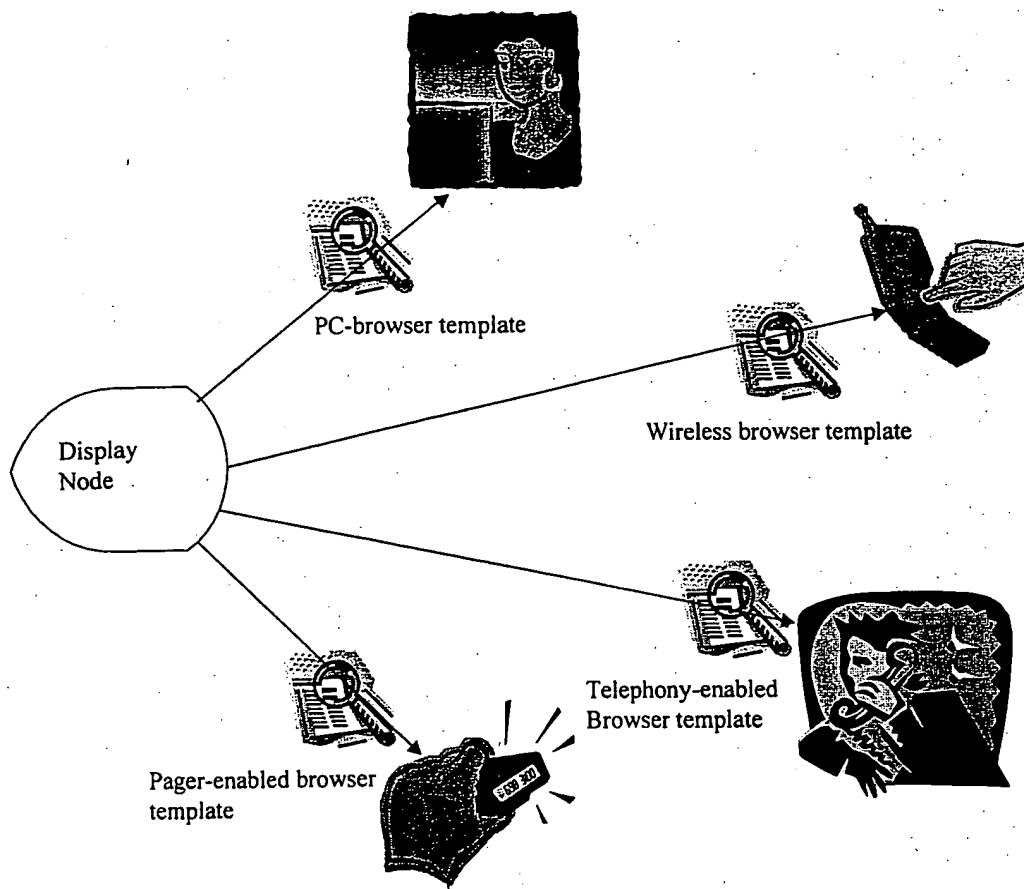


Fig 11 Template-enabled browser device independence

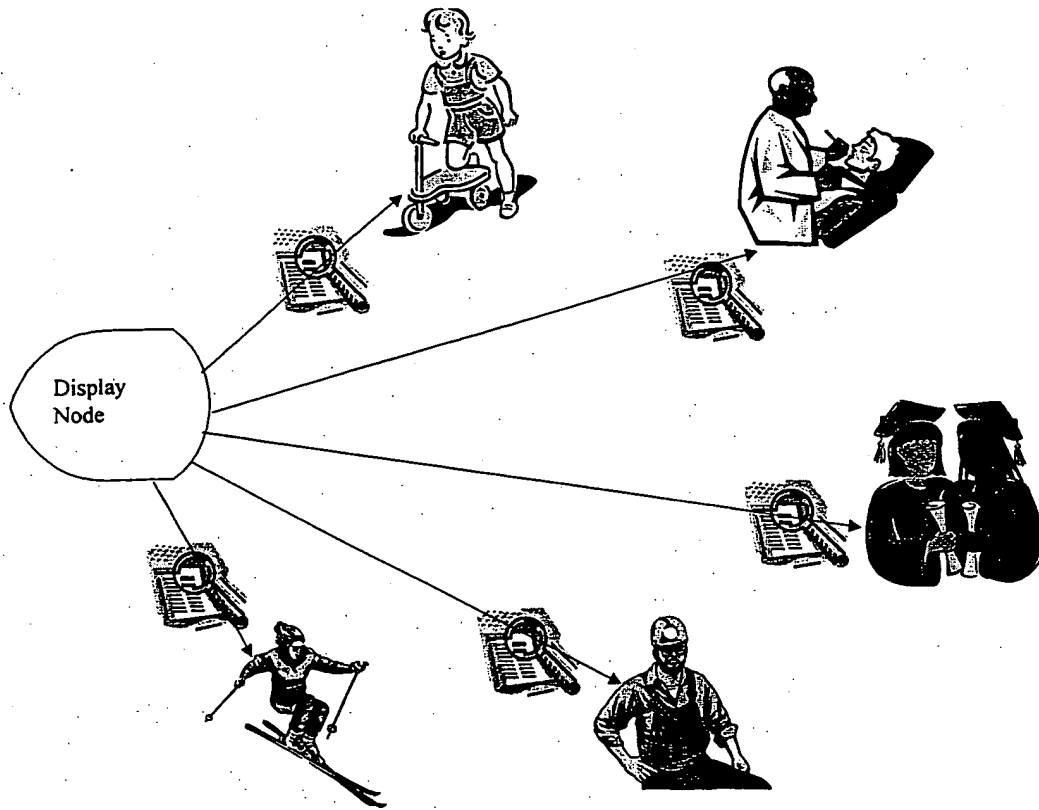


Fig 12 Template-enabled personalization of browser user interface

Business Process Design

Define Process /
Service Objectives

Define Rules

Identify / Collect
Information /
Knowledge

Prototype /
Validate rules /
processing

Systems
Integration
Planning

Finalize
Application

Website Design

Identify Overall
Website UI / Look
& Feel

Customize
standards for this
application

Integrate with
application specific
layout

Confirm Overall
Look & Feel

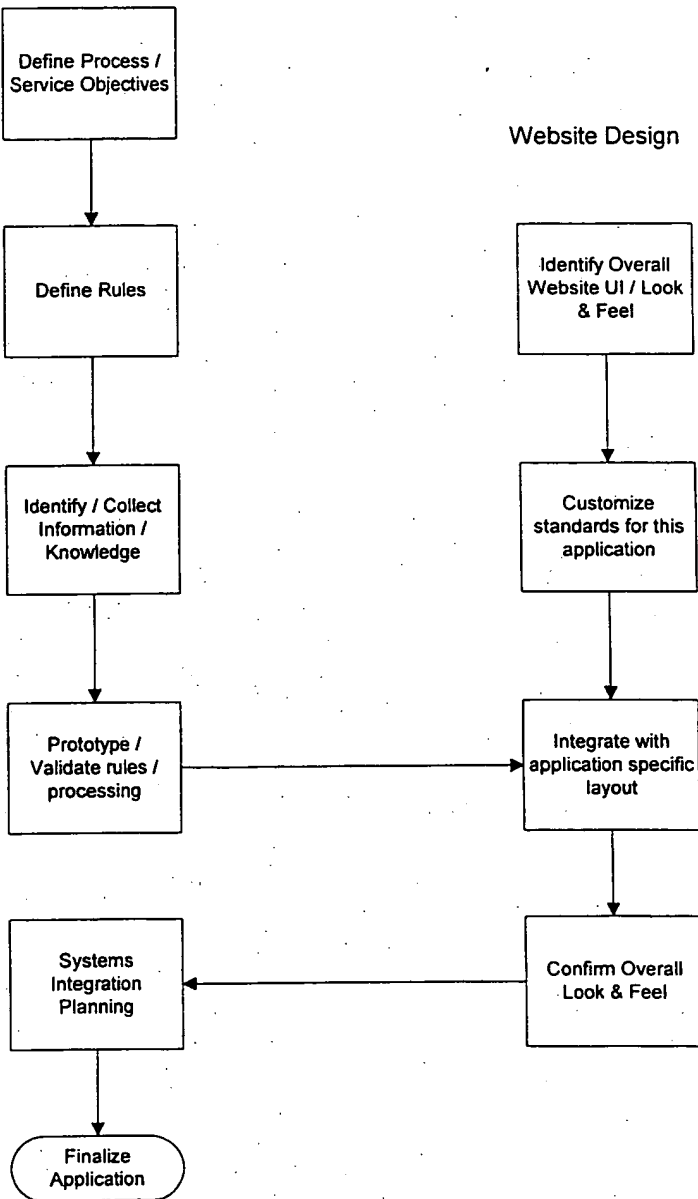


Fig 13 Overlapped Business Process Design and Website Design Methodology

Analyst uses a process design tool to layout the target business process and corresponding rules based on documentation and best practices. She uses a set of pre-defined templates and display objects to set up a basic look and feel.

Company user interface designers update the basic set of templates and display objects to conform to a standard look and feel

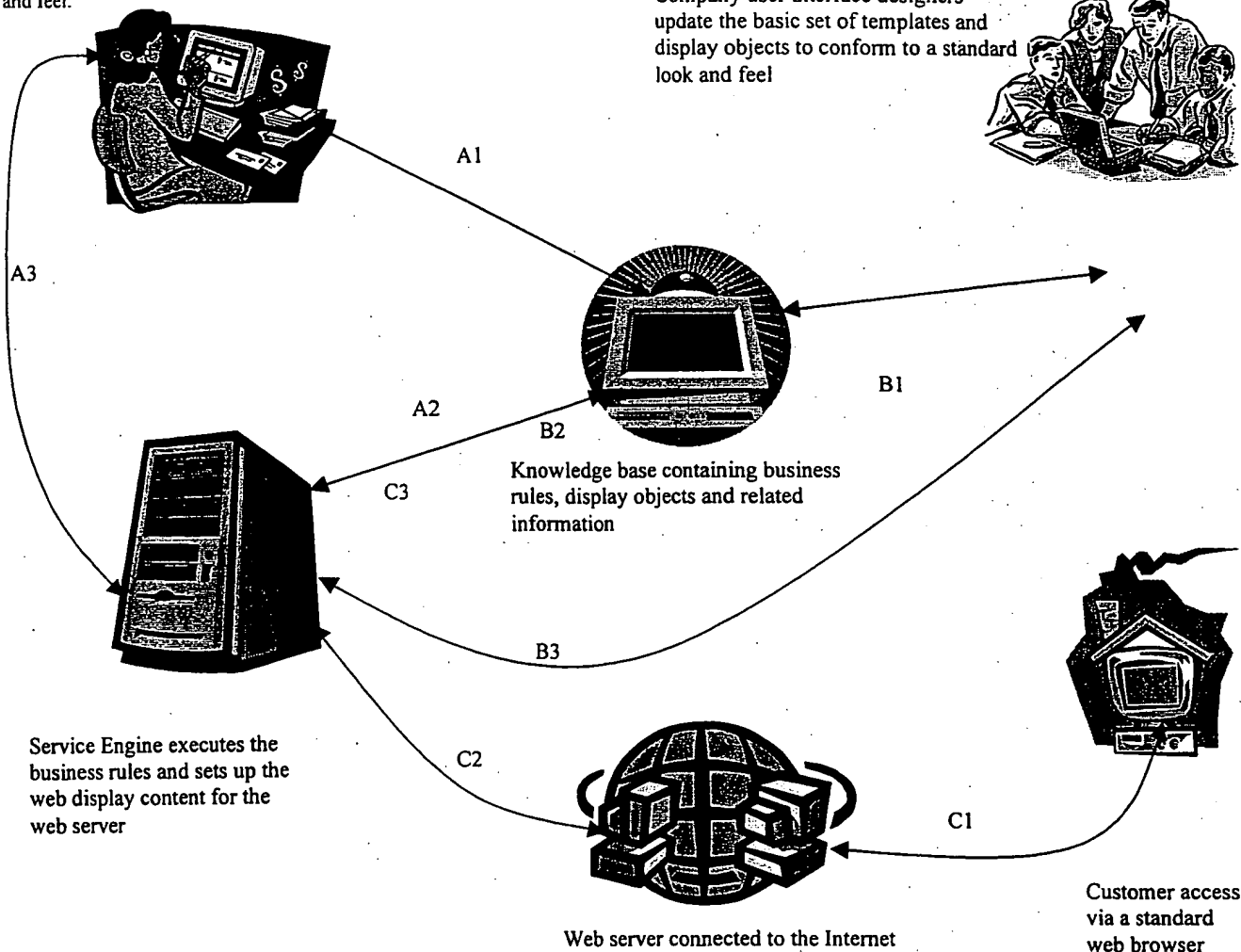


Fig 14 Information and Control Flow

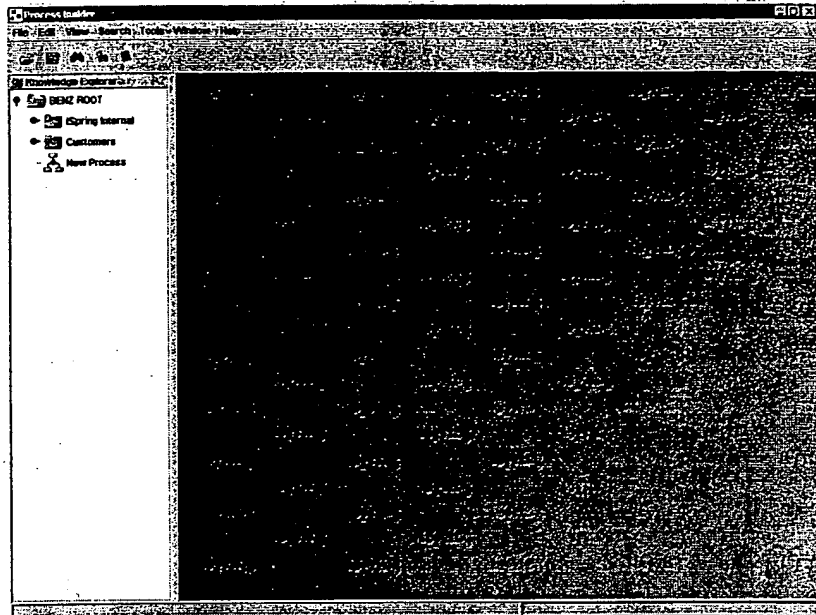


Figure 15 Opening Process Builder Screen

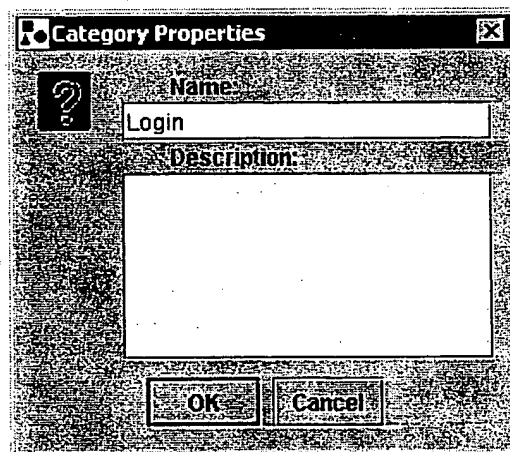


Figure 16 Category Properties

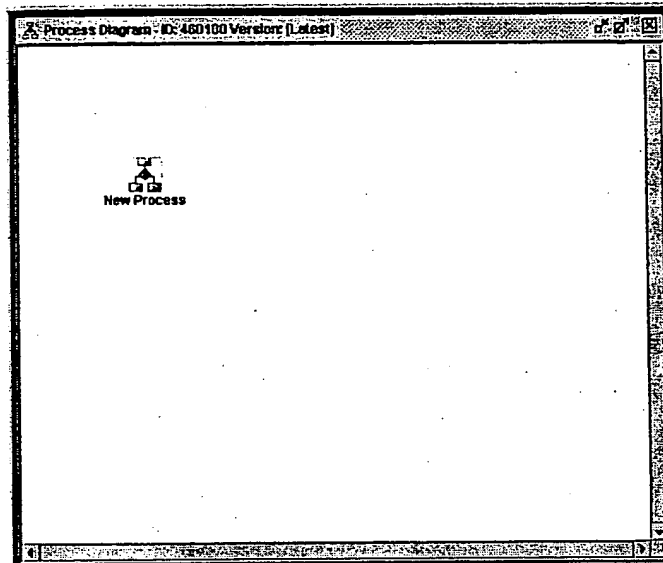


Figure 17 New Process Node

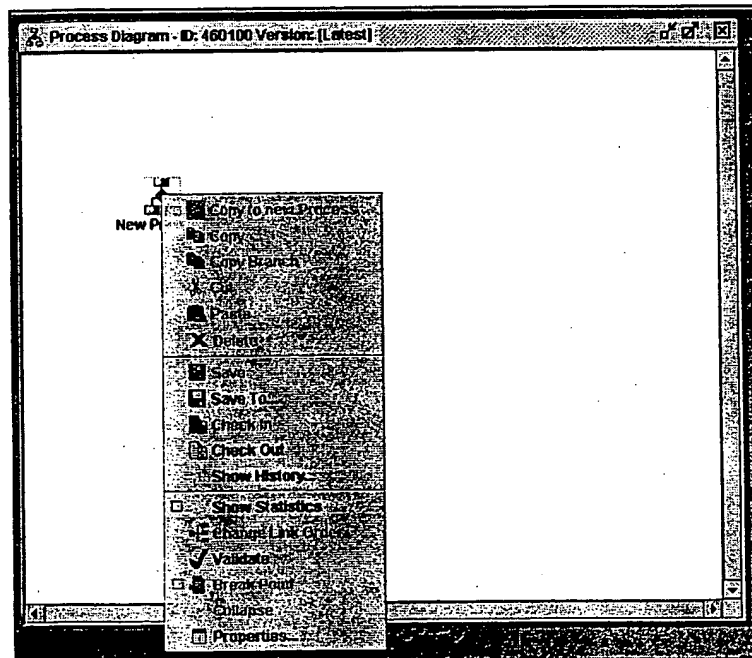


Figure 18 Checking Out A Process

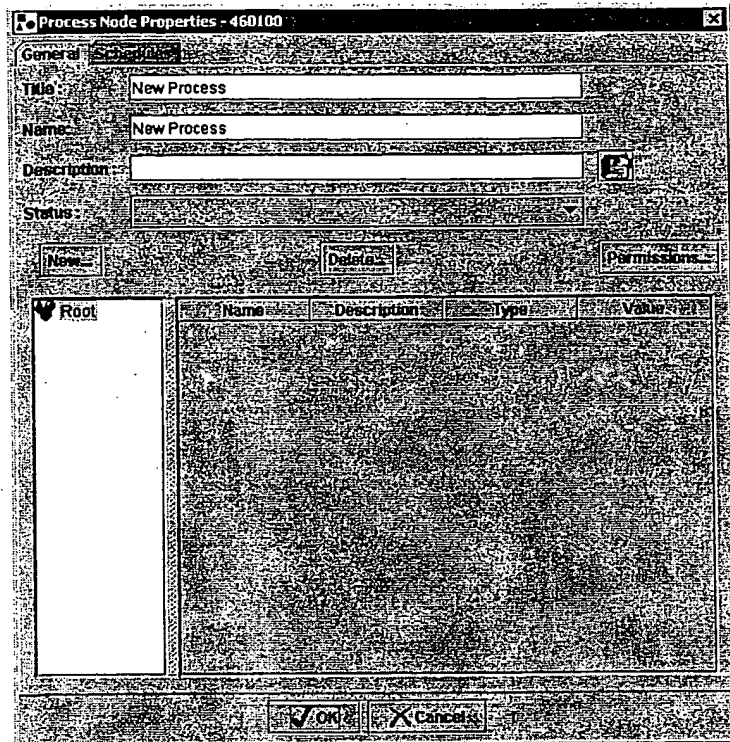


Figure 19 Process Node Properties

Process Node Properties - 460100

General

Title: Login Process

Name: LoginProcess

Description:

Status:

Move... Delete... Permissions...

	Name	Description	Type	Value
Root				
username	username		String	
password	password		Boolean	false
			Long	
			Object	
			String	
			Time	
			TimeStamp	
			User type	
			XML	
			XML Element	

OK Cancel

Figure 20 List of Variable Types

Process Node Properties - 460100

General | Schedules

Title: Login Process

Name: LoginProcess

Description:

Status:

New Delete Permissions

Root

- username
- password

Name	Description	Type	Value
username		String	
password		String	

OK Cancel

Figure 21 Naming Variables

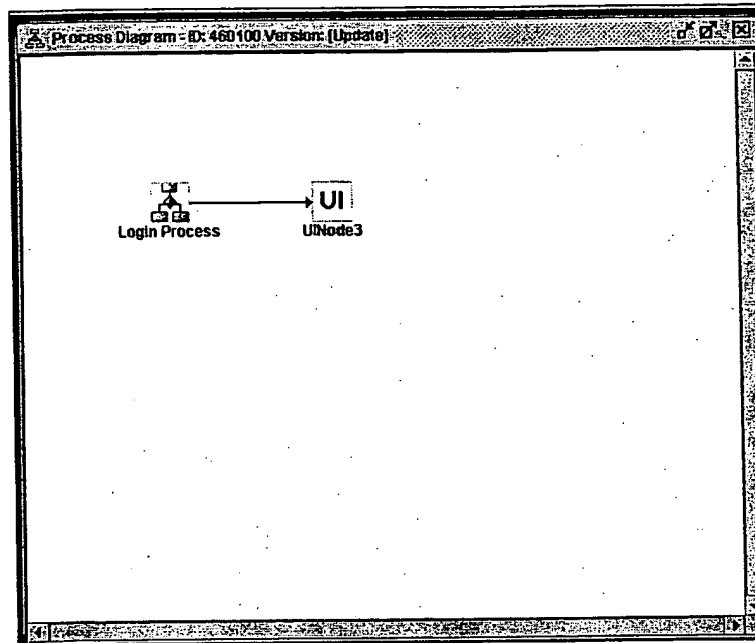


Figure 22 User Interface Node

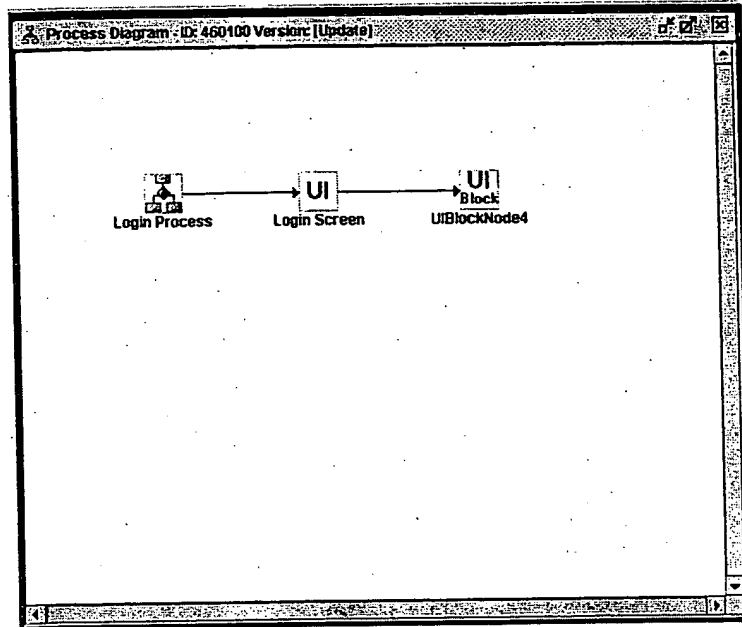


Figure 23 User Interface Block Node

UIBlock Node Properties - 460114

General: **Properties**

Title: Login Controls

Name: LoginControls

Description:

Component Chooser

Selected Components

- String

Available Components

- Date
- DateTime
- DBList
- List
- Number
- String

General: **Properties** **Events**

Title:

Description:

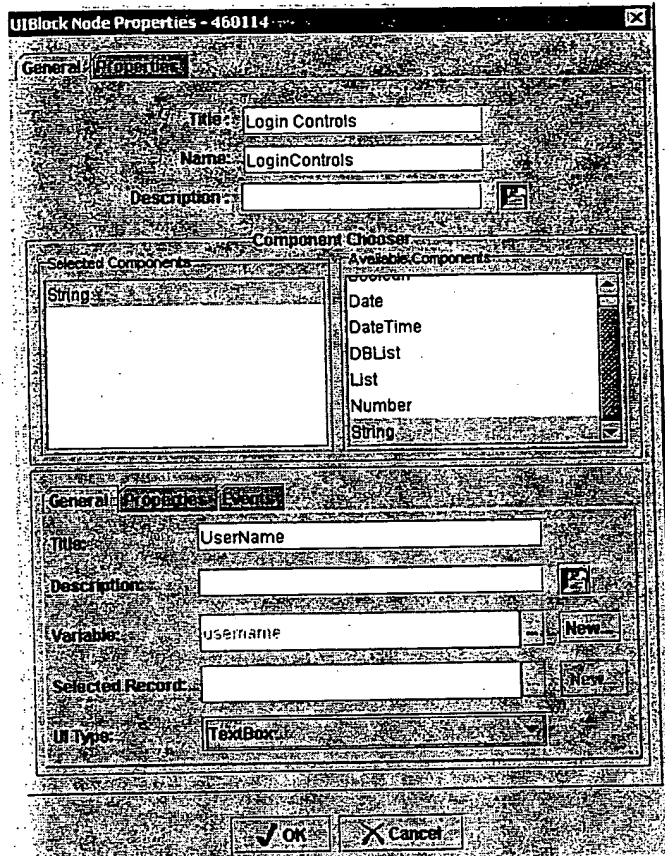
Variable: New...

Selected Record: New...

UI Type:

OK Cancel

Figure 24 User Interface Block Node Properties

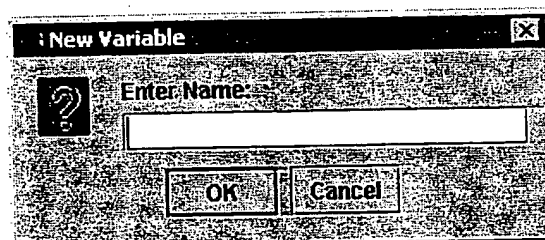


The dialog box is titled "UIBlock Node Properties - 460114". It has two tabs: "General" and "Properties". The "General" tab is selected. It contains the following fields and controls:

- Title:** Login Controls
- Name:** LoginControls
- Description:** (empty text box)
- Component Chooser:** A section with two panes. The left pane is labeled "Selected Components" and contains a "String" entry. The right pane is labeled "Available Components" and contains a list: Date, DateTime, DBList, List, Number, and String.
- General Properties Section:**
 - Title:** UserName
 - Description:** (empty text box)
 - Variable:** USERNAME (with a "New" button)
 - Selected Record:** (empty text box) (with a "New" button)
 - UI Type:** TextBox (dropdown menu)

At the bottom are "OK" and "Cancel" buttons.

Figure 25 Component Definition Box, General Tab



The dialog box is titled "New Variable". It contains a question mark icon and the text "Enter Name:". Below this is a text input field. At the bottom are "OK" and "Cancel" buttons.

Figure 26 Variable Definition Box, User Interface Block Node

UIBlock Node Properties - 460114

General Properties

Title: Login Controls

Name: LoginControls

Description:

Component Chooser

Selected Components:

String

Available Components:

Date
DateTime
DBList
List
Number
String

General Properties: Extra

Property	Value
Align	
Background color	
Caption	User Name
Caption position	
Caption suffix	
Enabled	
Font color	
Font face	
Font size	
Font style	

OK Cancel

Figure 27 Component Definition Box, Properties Tab

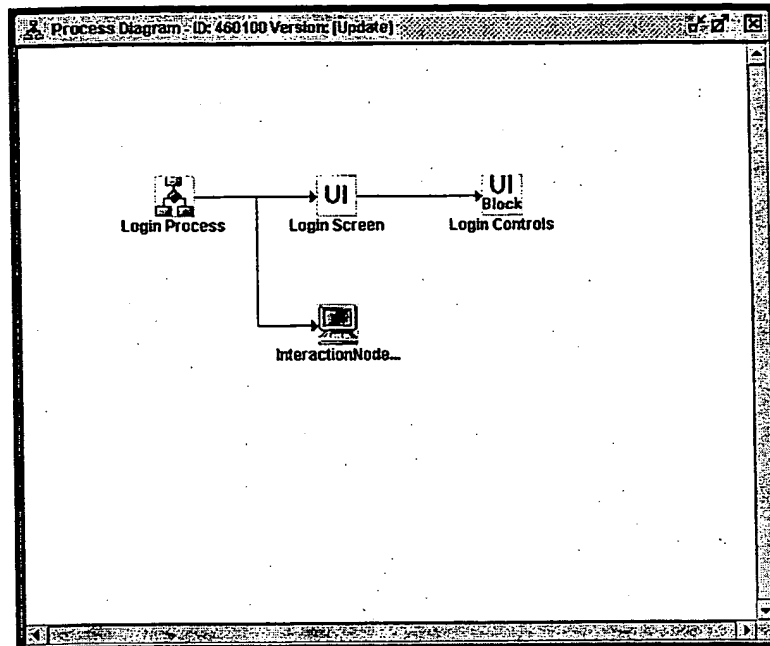


Figure 28 Interaction Node

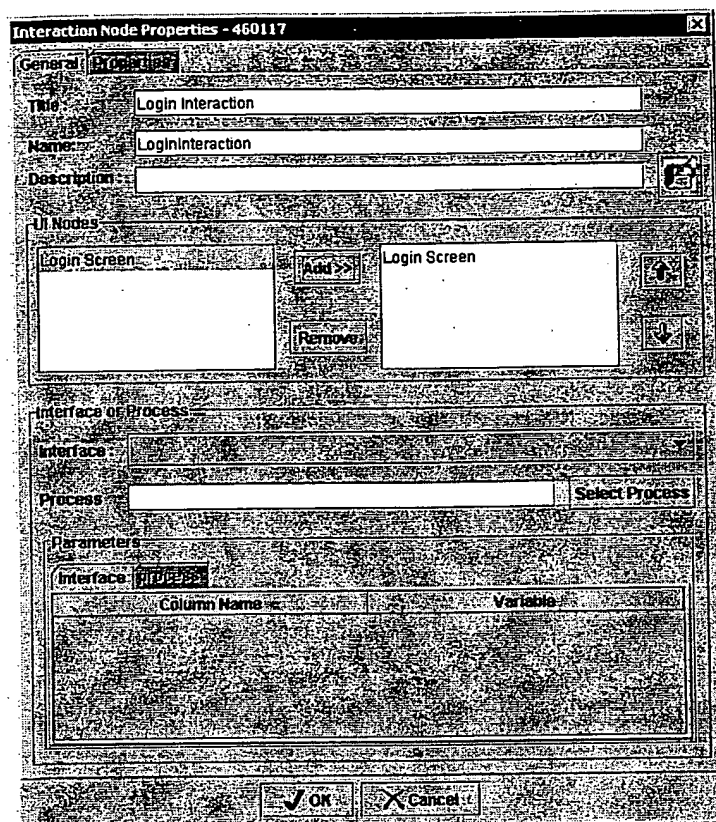


Figure 29 Selecting a User Interface Node

Interaction Node Properties - 460117

Property	Value
backbuttoncaption	
backbuttonimage	
backbuttonvisible	false
bgcolor	
caption	
captionbgcolor	
captioncolor	
debug	
description	
email	
enabled	
fontcolor	
fontface	
fontsize	
fontstyle	
fontweight	
keephistory	
nextbuttoncaption	
nextbuttonimage	
nextbuttonvisible	
requiredfieldindicator	
resetbuttonvisible	
template	MSTemplate
type	

OK Cancel

Figure 30 Interaction Node's Properties

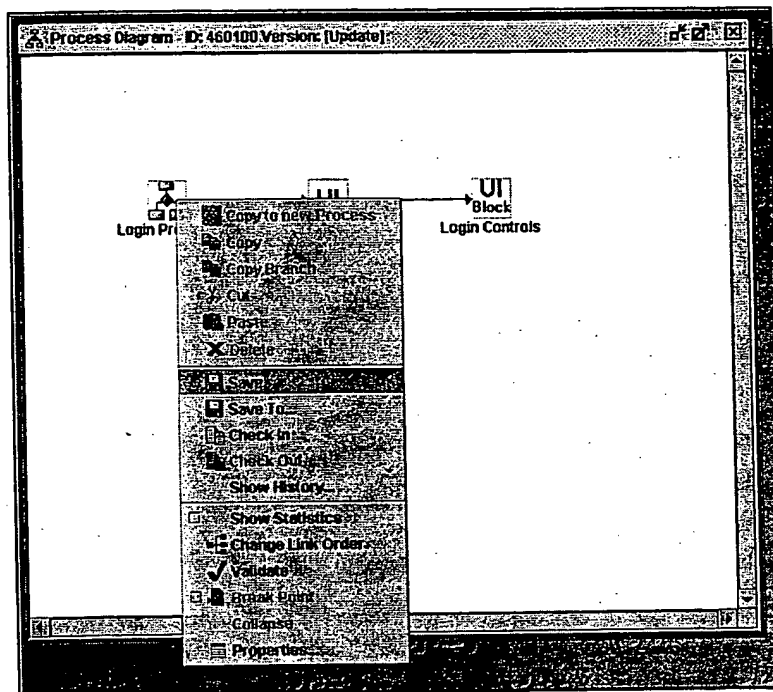


Figure 31 Process Node Menu, Save Process

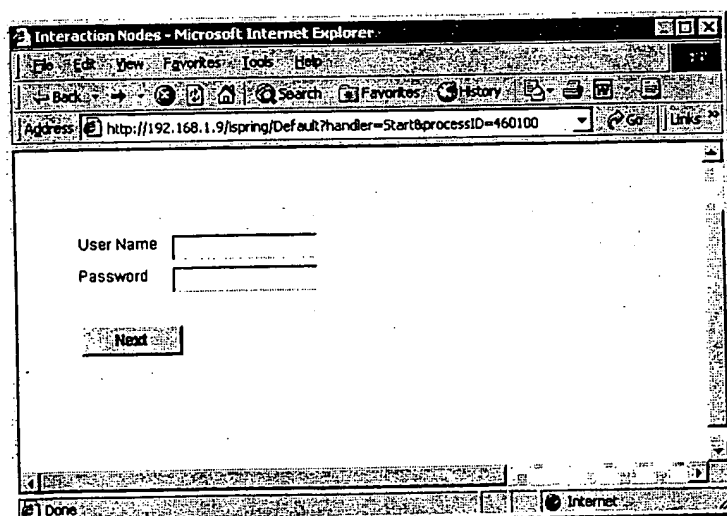


Figure 32 Login Process URL, Basic Fields

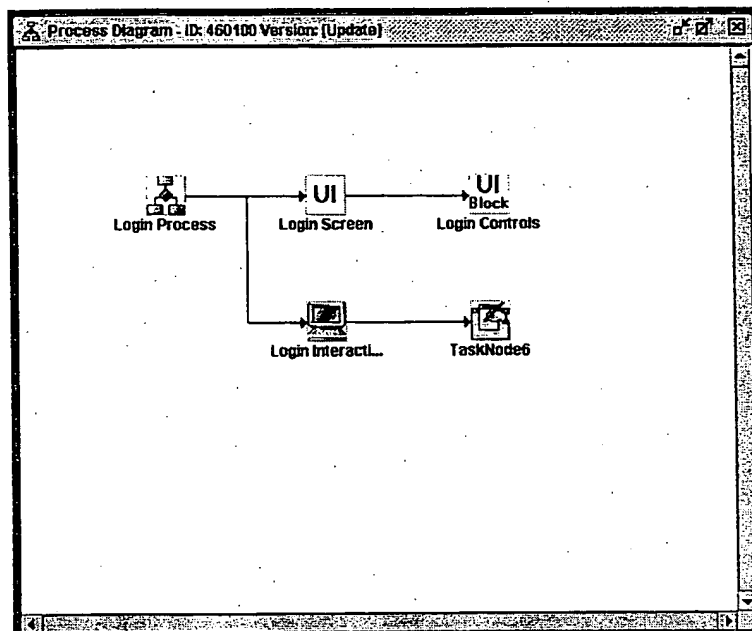


Figure 33 Task Node